

## ABSTRACT

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## PROBLEMS TO BE SOLVED:

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To identify the type and distillation properties for light oils having various compositions different from each other in distillation properties in an accurate and rapid manner.

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## MEANS FOR SOLUTION:

A pulse voltage is applied for a predetermined period of time to a liquid type identification sensor heater comprising a heater and an identification liquid temperature sensor provided in the vicinity of the heater;

the light oil to be identified is heated by the heater; and

the liquid type is identified with a voltage output difference  $V_0$ , corresponding to a temperature difference between the initial temperature and the peak temperature of the identification liquid temperature sensor.